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Exhibit 300: Capital Asset Summary
Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview & Summary Information

Date Investment First Submitted: 2009-06-30
Date of Last Change to Activities: 2012-08-30
Investment Auto Submission Date: 2012-02-29
Date of Last Investment Detail Update: 2012-02-28
Date of Last Exhibit 300A Update: 2012-08-30
Date of Last Revision: 2012-08-30

Agency: 422 - National Science Foundation   **Bureau:** 00 - Agency-Wide Activity

Investment Part Code: 02

Investment Category: 00 - Agency Investments

1. Name of this Investment: IT Infrastructure, Office Automation and Telecommunications

2. Unique Investment Identifier (UII): 422-000000032

Section B: Investment Detail

1. **Provide a brief summary of the investment, including a brief description of the related benefit to the mission delivery and management support areas, and the primary beneficiary(ies) of the investment. Include an explanation of any dependencies between this investment and other investments.**

   NSF's physical and IT-enabled business infrastructure supports the operation of mission-essential IT applications and office automation activities, including its telecommunications requirements. NSF has established an overall program for managing all Infrastructure, Office Automation, and Telecommunications (I/OA/T) projects to ensure that these investments are integrated and managed across NSF consistent with NSF's strategic vision and enabling both project and technical consolidation and integration across NSF. This investment: · Provides basic maintenance and operations levels for ongoing operations, including data center operations, network, email and help desk services, and · Supports new efforts essential for system modernization, additional system redundancy to increase operational stability, and expanded and automated services to accommodate an increasingly distributed 24x7 user community which includes NSF staff, NSF visitors, and the science, engineering, research, and education community. NSF transitioned to Trusted Internet Connection (TIC) in FY2011 and is now acquiring internet and enhanced security services from a DHS certified provider.

2. **How does this investment close in part or in whole any identified performance gap in support of the mission delivery and management support areas? Include an**

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assessment of the program impact if this investment isn't fully funded.

The IT Infrastructure, Office Automation and Telecommunications Investment supports the operation of mission-essential IT and communication services for NSF staff, the research community, and the general public. The support of these services allows NSF to maintain the quality of its technology, adapt to an increasingly mobile workforce, and effectively prepare for and transition to a new NSF headquarters building.

3. **Provide a list of this investment's accomplishments in the prior year (PY), including projects or useful components/project segments completed, new functionality added, or operational efficiency achieved.**

FY 2011 major infrastructure accomplishments are as follows: NSF migrated its IT network and network security services to a DHS certified network provider in compliance with the Government-wide Trusted Internet Connection Initiative; NSF installed infrastructure to enhance the security, speed, and availability of its external wireless network; Microsoft Lync, a suite of communication and collaboration tools, was launched NSF-wide; NSF TelePresence, a state-of-the-art videoconferencing system, was installed at NSF; AccessWorkspace, a remote access solution that allows staff to securely connect to all NSF systems in the event of a building closure or power outage, was launched; NSF doubled its internet bandwidth five-fold to 1 Gig-E; NSF installed infrastructure to allow for cell phone access in NSF's headquarter buildings; implement DNS-SEC; implement Disaster Recovery with an email hot sight and auto shutdown procedures; and secure PDAs (with use of active sync control).

4. **Provide a list of planned accomplishments for current year (CY) and budget year (BY).**

In FY 2012 and FY 2013, NSF will continue its transition to a commercial data center including implementing necessary upgrades to NSF networks and network connections to the offsite commercial data center. In support of this NSF plans to continue to consolidate infrastructure, leverage opportunities to lease data center equipment versus purchasing it, increase use of virtual servers, and continue to transition selected IT services (including email, instant messaging, and SharePoint) to a hosted environment in the cloud. Additionally, plans for FY 2012 and FY 2013 include: · Implementing HSPD-12 logical "smart card" access for NSF IT systems in compliance with Homeland Security Presidential Directive 12, · Piloting and implementing virtual desktop computers at NSF, which will allow NSF to be more adaptive to an increasingly mobile workforce by providing NSF staff with an identical yet secure computing experience on-site at NSF and in off-site locations, and · Activities related to NSF's transition to a new headquarters building and data consolidation.

5. **Provide the date of the Charter establishing the required Integrated Program Team (IPT) for this investment. An IPT must always include, but is not limited to: a qualified fully-dedicated IT program manager, a contract specialist, an information technology specialist, a security specialist and a business process owner before OMB will approve this program investment budget. IT Program Manager, Business Process Owner and Contract Specialist must be Government Employees.**

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Section C: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.C.1 Summary of Funding				
	PY-1 & Prior	PY 2011	CY 2012	BY 2013
Planning Costs:	$0.0	$0.0	$0.0	$0.0
DME (Excluding Planning) Costs:	$0.0	$0.0	$0.0	$0.0
DME (Including Planning) Govt. FTEs:	$0.0	$0.0	$0.0	$0.0
Sub-Total DME (Including Govt. FTE):	0	0	0	0
O & M Costs:	$27.7	$29.4	$25.4	$25.4
O & M Govt. FTEs:	$4.2	$4.2	$4.3	$4.5
Sub-Total O & M Costs (Including Govt. FTE):	$31.9	$33.6	$29.7	$29.9
Total Cost (Including Govt. FTE):	$31.9	$33.6	$29.7	$29.9
Total Govt. FTE costs:	$4.2	$4.2	$4.3	$4.5
# of FTE rep by costs:	19	19	19	19

Total change from prior year final President's Budget ($)		$33.6	$29.7	
Total change from prior year final President's Budget (%)				

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2. If the funding levels have changed from the FY 2012 President's Budget request for PY or CY, briefly explain those changes:

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Section D: Acquisition/Contract Strategy (All Capital Assets)

Table I.D.1 Contracts and Acquisition Strategy											
Contract Type	EVM Required	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	IDV Agency ID	Solicitation ID	Ultimate Contract Value ($M)	Type	PBSA ?	Effective Date	Actual or Expected End Date
Awarded	4900	NSFDACS09D 1610	GS35F4461G	4730							
Awarded	4900	NSFDACS08D 1536	GS23F9806H	4730							
Awarded	4900	NSFDACS10T 1198	GS00F0006N	4730							
Awarded	4900	NSFDACS075 7230	GS00T99ALD0 210	4735							
Awarded	4900	NSFDACS10C 1278									

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

Project is specific to operations and maintenance work thus EVM is not required.

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Exhibit 300B: Performance Measurement Report

Section A: General Information

Date of Last Change to Activities: 2012-08-30

Section B: Project Execution Data

Table II.B.1 Projects

Project ID	Project Name	Project Description	Project Start Date	Project Completion Date	Project Lifecycle Cost ($M)
3823	Migrate to Cloud	Migration of services to cloud.			
3824	Government-Wide Initiatives	Activities related to the implementation of government-wide initiatives such as IPV6 and TIC.			
3825	Data Center Transition	Activities in support of the Federal Data Center Consolidation Initiative (FDCCI).			
3826	Technology Upgrades (Infrastructure)	Routine technology upgrades to hardware and software platforms.			
3827	Future NSF	Planning for the move of the NSF facility.			

Activity Summary

Roll-up of Information Provided in Lowest Level Child Activities

Project ID	Name	Total Cost of Project Activities ($M)	End Point Schedule Variance (in days)	End Point Schedule Variance (%)	Cost Variance ($M)	Cost Variance (%)	Total Planned Cost ($M)	Count of Activities
3823	Migrate to Cloud							
3824	Government-Wide Initiatives							

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Activity Summary

Roll-up of Information Provided in Lowest Level Child Activities

Project ID	Name	Total Cost of Project Activities ($M)	End Point Schedule Variance (in days)	End Point Schedule Variance (%)	Cost Variance ($M)	Cost Variance (%)	Total Planned Cost ($M)	Count of Activities
3825	Data Center Transition							
3826	Technology Upgrades (Infrastructure)							
3827	Future NSF							

Key Deliverables

Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days)	Schedule Variance (%)
NONE								

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Section C: Operational Data

				Table II.C.1 Performance Metrics				
Metric Description	Unit of Measure	FEA Performance Measurement Category Mapping	Measurement Condition	Baseline	Target for PY	Actual for PY	Target for CY	Reporting Frequency
First Call External	Percent	Customer Results - Service Quality	Over target	90.000000	94.000000		94.000000	Monthly
Provide 99.7% of Business Applications Availability	Percent	Technology - Information and Data	Over target	99.700000	99.900000		99.900000	Monthly
Provide 96% Customer Help Desk Satisfaction	Percent	Customer Results - Service Quality	Over target	96.000000	96.000000		96.000000	Semi-Annual
Deploy 99% of OS Critical Patches	Percent	Process and Activities - Cycle Time and Timeliness	Over target	100.000000	100.000000		100.000000	Monthly
Provide 99.6% Network Availability	Percent	Technology - Information and Data	Over target	99.600000	99.900000		99.900000	Monthly